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AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claim 1 (currently amended).

A compound of Formula I

$$Z-L-R^1-Q-D-(V^1)_m-R^2$$

Ι

or a pharmaceutically acceptable salt thereof,

wherein:

Z is selected from:

HO₂C;

HO(H)N(O)C;

H(O)C-N(OH);

 $CH_3(O)C-N(OH);$

CH₃(H)N(O)C-N(OH);

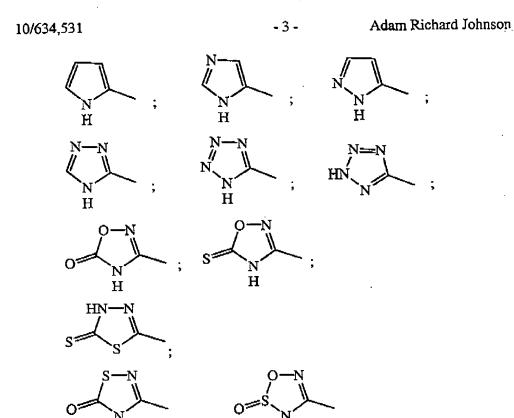
HS;

 $H_2N(O)_2S$;

 $CH_3(H)N(O)_2S;$

HO(O)P;

 $(HO)_2(O)P;$



L is selected from:

C₃-C₅ alkylenyl;

Η

Substituted C₃-C₅ alkylenyl;

3- to 5-membered heteroalkylenyl; and

Substituted 3- to 5-membered heteroalkylenyl;

; and

Substituted L groups contain 1 or 2 substituents on a carbon atom or nitrogen atom independently selected from:

H

HO;

CN; and

CF₃;

wherein each substituent on a carbon atom may further be independently F, and wherein 2 substituents may be taken together with a carbon atom to which they are both bonded to form the group C=O;

R¹ is independently selected from:

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C_5 or C_6 cycloalkylenyl-(C_1-C_8 alkylenyl);
        Substituted C<sub>5</sub> or C<sub>6</sub> cycloalkylenyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
        5- or 6-membered heterocycloalkylenyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
        Substituted 5- or 6-membered heterocycloalkylenyl-(C1-C8 alkylenyl);
        Phenylenyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
        Substituted phenylenyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         5- or 6-membered heteroarylenyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         Substituted 5- or 6-membered heteroarylenyl-(C_1-C_8 \text{ alkylenyl});
        Phenyl;
         Substituted phenyl;
         Naphthyl;
         Substituted naphthyl;
         5- or 6-membered heteroaryl;
         Substituted 5- or 6-membered heteroaryl;
         8- to 10-membered heterobiaryl; and
         Substituted 8- to 10-membered heterobiaryl;
R<sup>2</sup> is independently selected from:
         H;
         C_1-C_6 alkyl;
         Phenyl-(C_1-C_8 alkylenyl);
         Substituted phenyl-(C_1-C_8 \text{ alkylenyl});
         Naphthyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         Substituted naphthyl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         5- or 6-membered heteroaryl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         Substituted 5- or 6-membered heteroaryl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         8- to 10-membered heterobiaryl-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         Substituted 8- to 10-membered heterobiaryl-(C_1-C_8 alkylenyl);
         Phenyl-O-(C_1-C_8 alkylenyl);
         Substituted phenyl-O-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
         Phenyl-S-(C_1-C_8 \text{ alkylenyl});
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        Substituted phenyl-S-(C<sub>1</sub>-C<sub>8</sub> alkylenyl);
        Phenyl-S(O)-(C_1-C_8 alkylenyl);
        Substituted phenyl-S(O)-(C1-C8 alkylenyl);
        Phenyl-S(O)<sub>2</sub>-(C_1-C_8 alkylenyl); and
        Substituted phenyl-S(O)2-(C1-C8 alkylenyl);
Each substituted R<sup>1</sup> group contains from 1 to 3 substituents, and each substituted
R<sup>2</sup> group contains from 1 to 4 substituents, wherein each substituent is
independently on a carbon or nitrogen atom, independently selected from:
         C_1-C_6 alkyl;
         CN;
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 $(C_1-C_6 \text{ alkyl})-C(O)-N(H)-S(O)_2-(C_1-C_8 \text{ alkylenyl})_m;$

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wherein each substituent on a carbon atom may further be independently selected from:

Halo; and

HO₂C;

wherein 2 substituents may be taken together with a carbon atom to which they are both bonded to form the group C=O;

wherein two adjacent, substantially sp² carbon atoms may be taken together with a diradical substituent to form a cyclic diradical selected from:

R is H or C1-C6 alkyl;

G is CH_2 ; O, S, S(O); or $S(O)_2$;

Each m is an integer of 0 or 1;

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Q, when bonded to a nitrogen atom in group-D, is selected from:

OC(O);

 $CH(R^6)C(O);$

 $OC(NR^6)$;

 $CH(R^6)C(NR^6);$

 $N(R^6)C(O)$;

 $N(R^6)C(S)$;

 $N(R^6)C(NR^6)$;

SC(O);

 $CH(\mathbb{R}^6)C(S);$

SC(NR6);

 $C = CCH_2$;

$$\mathbb{R}^6$$
 \mathbb{R}^6 \mathbb{N}

$$\mathbb{R}^6$$
 , and \mathbb{R}^6 ; and

Q, when bended to a carbon atom in group D, is as defined-above and may further be selected from:

OCH₂;

 $N(R^6)CH_2;$

trans-(H)C=C(H);

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cis-(H)C=C(H);

C≡C;

CH₂C≡C;

CF₂C≡C; and

C≡CCF₂;

Each R⁶ independently is H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl; 3- to 6-membered heterocycloalkyl; phenyl; benzyl; or 5- or 6-membered heteroaryl;

X is O, S, N(H), or N(C_1 - C_6 alkyl);

Each V is independently C(H) or N;

D is a cyclic diradical group selected from:

wherein the group D may be unsubstituted or substituted on a carbon atom or a nitrogen atom by replacement of a hydrogen atom with a group selected from:

CH₃;

CF₃;

C(O)H;

CN;

HO:

CH₃O;

 $C(F)H_2O;$

C(H)F2O; and

CF₃O;

wherein a carbon atom in the group D may further be substituted with F;

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V¹ is a 5-membered heteroarylenyl containing carbon atoms and from 1 to 4 heteroatoms selected from 1 O, 1 S, 1 NH, 1 N(C₁-C₆ alkyl), and 4 N, wherein the O and S atoms are not both present, and wherein the heteroarylenyl may optionally be unsubstituted or substituted with 1 substituent selected from fluoro, methyl, hydroxy, trifluoromethyl, cyano, and acetyl:

wherein each C_8 - C_{10} bicycloalkyl is a bicyclic carbocyclic ring that contains 8-, 9-, or 10-member carbon atoms which are 5,5-fused, 6,5-fused, or 6,6-fused bicyclic rings, respectively, and wherein the ring is saturated or optionally contains one carbon-carbon double bond;

wherein each 8- to 10-membered heterobicycloalkyl is a bicyclic ring that contains carbon atoms and from 1 to 4 heteroatoms independently selected from 2 O, 1 S, 1 S(O), 1 S(O)₂, 1 N, 4 N(H), and 4 N(C₁-C₆ alkyl), and wherein when two O atoms or one O atom and one S atom are present, the two O atoms or one O atom and one S atom are not bonded to each other, and wherein the ring is saturated or optionally contains one carbon-carbon or carbon-nitrogen double bond, and wherein the heterobicycloalkyl is a 5,5-fused, 6,5-fused, or 6,6-fused bicyclic ring, respectively,

wherein each heterocycloalkyl is a ring that contains carbon atoms and from 1 to 4 heteroatoms independently selected from 2 O, 1 S, 1 S(O), 1 S(O)₂, 1 N, 4 N(H), and 4 N(C₁-C₆ alkyl), and wherein when two O atoms or one O atom and one S atom are present, the two O atoms or one O atom and one S atom are not bonded to each other, and wherein the ring is saturated or optionally contains one carbon-carbon or carbon-nitrogen double bond; wherein each heterocycloalkylenyl is a ring diradical that contains carbon atoms

and from 1 to 3 heteroatoms independently selected from 1 O, 1 S, 1 S(O), 1 S(O)₂, 1 N, 2 N(H), and 2 N(C₁-C₆ alkyl), and wherein when one O atom and one S atom are present, the one O atom and one S atom are not bonded to each other, and wherein the ring is saturated or optionally contains one carbon-carbon or carbon-nitrogen double bond;

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- wherein each 5-membered heteroaryl contains carbon atoms and from 1 to 4 heteroatoms independently selected from 1 O, 1 S, 1 N(H), 1 N(C₁-C₆ alkyl), and 4 N, and each 6-membered heteroaryl contains carbon atoms and 1 or 2 heteroatoms independently selected from N, N(H), and N(C₁-C₆ alkyl), and 5- and 6-membered heteroaryl are monocyclic rings;
- wherein a 5-membered heteroarylenyl is a 5-membered monocyclic diradical ring that contains carbon atoms and from 1 to 4 heteroatoms independently selected from 1 O, 1 S, 1 N(H), 1 N(C₁-C₆ alkyl), and 4 N, wherein the 1 O atom and 1 S atom are not both present, and 6-membered heteroarylenyl is a 6-membered monocyclic diradical ring that contains carbon atoms and 1 or 2 heteroatoms independently selected from 2 N;
- wherein each heterobiaryl contains carbon atoms and from 1 to 4 heteroatoms independently selected from 1 O, 1 S, 1 N(H), 1 N(C₁-C₆ alkyl), and 4 N, and where the 8-, 9-, and 10-membered heterobiaryl are 5,5-fused, 6,5fused, and 6,6-fused bicyclic rings, respectively, and wherein at least 1 of the 2 fused rings of a bicyclic ring is aromatic, and wherein when the O and S atoms both are present, the O and S atoms are not bonded to each other:
- wherein with any (C₁-C₆ alkyl)₂-N group, the C₁-C₆ alkyl groups may be optionally taken together with the nitrogen atom to which they are attached to form a 5- or 6-membered heterocycloalkyl; and wherein each group and each substituent recited above is independently selected.

Claim 2 (original). The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, wherein Z is HO₂C.

Claim 3 (original). The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, wherein Z is selected from:

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Claim 4 (original). The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, wherein Z is selected from:

$$O \xrightarrow{N}_{H} ; and S \xrightarrow{N}_{H}$$

Claim 5 (original). The compound according to any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, wherein Q is $N(R^6)C(O)$.

Claim 6 (original). The compound according to any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, wherein Q is selected from:

C≡C;

CH₂C≡C;

C≡CCH₂;

CF₂C≡C; and

 $C = CCF_2$.

Claim 7 (canceled).

Claim 8 (original). A pharmaceutical composition, comprising a compound according to Claim 1, or a pharmaceutically acceptable salt thereof, admixed with a pharmaceutically acceptable carrier, excipient, or diluent.

Claim 9 (canceled).

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Claim 10 (previously presented). A method for treating osteoarthritis, comprising administering to a patient suffering from osteoarthritis a nontoxic effective amount of a compound according to Claim 1, or a pharmaceutically acceptable salt thereof.

Claim 11 (canceled).